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## WHAT IS CLAIMED IS:

1. A protective covering comprising at least a two-layer coating build-up wherein

the first coating comprises a two-component polyurethane adhesion promoter (primer) containing alkoxysilyl groups and

the second coating comprises an inorganic or organic coating or an inorganic-organic hybrid coating.

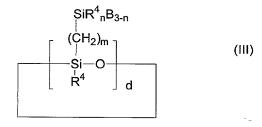
- 2. The protective covering of Claim 1 wherein the twocomponent polyurethane adhesion promoter comprises
  - I) a hardener component (A), comprising an addition product of at least one organic polyisocyanate (B) with an average NCO functionality of 2.5 to 5.0 and an isocyanate content of 8 to 27 wt.% and an alkoxysilane (C) with at least one group which is reactive towards isocyanate groups, of formula (I)

$$Q-Z-SiX_aY_{3-a}$$
 (I),

## in which

- 20 Q represents an isocyanate-reactive group,
  - Z represents a linear or branched C<sub>1</sub>-C<sub>12</sub>-alkylene group,
  - X represents a hydrolyzable group,
  - Y represents identical or different C<sub>1</sub>-C<sub>4</sub>-alkyl groups, and
  - a represents an integer from 1 to 3,
- 25 and
  - II) a paint resin (D) which is reactive towards isocyanate groups.
    - 3. The protective covering of Claim 2 wherein
  - Q represents OH, SH or NHR<sub>1</sub>, wherein R<sub>1</sub> represents a C<sub>1</sub>-C<sub>12</sub>-alkyl group, a C<sub>6</sub>-C<sub>20</sub>-aryl group or -Z-SiX<sub>a</sub>Y<sub>3-a</sub>,
- The protective covering of Claim 2 wherein
  - Z represents a linear or branched C<sub>1</sub>-C<sub>4</sub>-alkylene group,

- 5. The protective covering of Claim 2 wherein
- X represents a  $C_1$ - $C_4$ -alkoxy,
- 6. The protective covering of Claim 1 wherein the second coating comprises an inorganic coating.
  - 7. The protective covering of Claim 1 wherein the second coating comprises an organically modified inorganic coating.
  - 8. The protective covering of Claim 7 wherein the organically modified coating comprises at least one multifunctional, cyclic carbosiloxane of the general formula (III)



in which

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- $R^4$  independently of one another represents a  $C_1$ - $C_{18}$ -alkyl group and/or a  $C_6$ - $C_{20}$ -aryl group, wherein
- B represents a radical chosen from the group consisting of OH,  $C_1$ - $C_4$ -alkoxy,  $C_6$ - $C_{20}$ -aryloxy and  $C_1$ - $C_6$ -acyloxy, preferably OH, methoxy or ethoxy,
- d is 3 to 6,
- n is 0 to 2 and
- m is 2 to 6, and/or a (partial) condensation product thereof.
- 25 9. The protective covering of Claim 8 wherein B represents OH, methoxy, or ethoxy.

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- 10. A process for the production of a protective covering comprising applying in a first step a two-component polyurethane adhesion promoter (primer) containing alkoxysilyl groups and applying in a second step an inorganic or organic coating or inorganic-organic hybrid coating to a substrate.
- 11. The process of Claim 10 further comprising applying in a further step a third coating on the substrate.
- 12. The process of Claim 10 wherein the substrate comprises a metal, a glass, or a polymer.
- 13. The process of Claim 10 wherein the substrate comprises polycarbonate, polymethyl methacrylate, polystyrene, polyvinyl chloride, polyvinylcyclohexane and copolymers thereof, polyimide, ABS or blends thereof.
- 14. A substrate comprising at least one protective covering of15 Claim 1.